Patent Claims

1. Composition comprising at least one cGMP PDE inhibitor and at least one local anaesthetic, with the proviso that the local anaesthetic is not benzyl alcohol, where the cGMP PDE inhibitor is a compound of the formula (I)

in which

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- R¹ represents hydrogen or straight-chain or branched alkyl having up to 4 carbon atoms,
- R² represents straight-chain alkyl having up to 4 carbon atoms,

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R³ and R⁴ are identical or different and represent a straight-chain or branched alkyl chain having up to 5 carbon atoms, which is optionally substituted up to twice, identically or differently, by hydroxyl or methoxy,

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or

R³ and R⁴ form, together with the nitrogen atom, a piperidinyl, morpholinyl, thiomorpholinyl ring or a radical of the formula

in which

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R⁷ denotes hydrogen, formyl, straight-chain or branched acyl or alkoxycarbonyl having in each case up to 6 carbon atoms, or denotes straight-chain or branched alkyl having up to 6 carbon atoms which is optionally substituted once to twice, identically or differently, by hydroxyl, carboxyl, straight-chain or branched alkoxy or alkoxycarbonyl having in each case up to 6 carbon atoms, or denotes C₃₋₈-cycloalkyl,

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and the heterocycles mentioned under R³ and R⁴, which are formed together with the nitrogen atom, are optionally substituted once to twice, identically or differently, optionally also geminally, by hydroxyl, formyl, carboxyl, straight-chain or branched acyl or alkoxycarbonyl having in each case up to 6 carbon atoms,

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and/or the heterocycles mentioned under R³ and R⁴, which are formed together with the nitrogen atom, are optionally substituted by straight-chain or branched alkyl having up to 6 carbon atoms, which is optionally substituted once to twice, identically or differently, by hydroxyl or carboxyl,

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and/or the heterocycles mentioned under R³ and R⁴, which are formed together with the nitrogen atom, are optionally substituted by N-linked piperidinyl or pyrrolidinyl,

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R⁵ and R⁶ are identical or different and represent hydrogen, straight-chain or branched alkyl having up to 6 carbon atoms, hydroxyl or represent straight-chain or branched alkoxy having up to 6 carbon atoms,

- 5 and salts, isomers and/or hydrates thereof.
 - 2. Composition according to Claim 1, comprising 2-{2-ethoxy-5-[(4-ethylpiperazin-1-yl)sulphonyl]phenyl}-5-methyl-7-propylimidazo[5,1-f][1,2,4]triazin-4(3H)-one or a salt, isomer and/or hydrate thereof as cGMP PDE inhibitor.
 - 3. Composition according to either of Claims 1 or 2, in which the local anaesthetic is selected from compounds of the formula (II)

$$\mathbb{R}^1$$
 \mathbb{R}^3 (II)

in which

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R¹ represents H, NH₂, NH(C₁₋₆-alkyl), O-C₁₋₆-alkyl or CH₂OPh;

represents O-C₁₋₆-alkyl which may optionally have a radical from the group consisting of NH(C₁₋₆-alkyl), N(C₁₋₆-alkyl)₂ or a saturated 5- or six-membered heterocycle which contains at least one nitrogen atom and is linked via the latter, and optionally one or two further heteroatoms from the group consisting of N, O, S, and optionally carries one to three further C₁₋₆-alkyl radicals, or represents (CH₂)₁₋₆-Het, where Het represents a saturated 5- or six-membered heterocycle which contains at least one nitrogen atom and

is linked via the latter, and optionally one or two further heteroatoms from the group consisting of N, O, S, and optionally carries one to three further C_{1-6} -alkyl radicals;

R³ represents H, halogen or O-C₁₋₆-alkyl;

or compounds of the formula (III)

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in which

R¹ represents H or OH;

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 R^2 represents C_{1-6} -alkyl- $N(C_{1-6}$ -alkyl)₂ where the bridging alkyl chain may optionally carry one or more C_{1-6} -alkyl radicals, or represents a saturated 5- or six-membered heterocycle which contains at least one nitrogen atom and optionally one or two further heteroatoms from the group consisting of N, O, S, and optionally carries one to three further C_{1-6} -alkyl radicals,

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 R^3 represents C_{1-6} -alkyl, halogen or $COOC_{1-6}$ -alkyl;

n represents 1 or 2;

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or a compound from the group consisting of

$$\bigcap_{N \in \mathcal{N}} N \cap \mathcal{N}(CH_3)_2$$

and polidocanol and benoxinate, and physiologically acceptable salts and/or hydrates thereof.

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4. Composition according to Claim 3, in which the local anaesthetic is selected from compounds of the formula (II)

in which

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- R¹ represents H, NH₂, NH-n-C₄H₉, O-n-C₃H₇, O-n-C₄H₉ or CH₂OPh;
 - R² represents OC_2H_5 , $O-n-C_4H_9$, $O-(CH_2)_2N(C_2H_5)_2$, $O(CH_2)_2N(CH_3)_2$, or a radical from the group consisting of

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$$-O(CH_2)_{\overline{3}} - N - (CH_2)_{\overline{2}} - N - (CH_2)_{\overline{3}} - N - (C$$

R³ represents H, Cl, O-n-C₃H₇ or O-n-C₄H₉;

or compounds of the formula (III)

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in which

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R¹ represents H or OH;

R² represents CH₂N(C₂H₅)₂, CHCH₃NH-n-C₃H₇, CH₂NH-n-C₄H₉ or a radical from the group consisting of

$$\bigcap_{\mathsf{CH}_3} \bigcap_{\mathsf{n-C_4H_9}} \bigcap_{\mathsf{n-C_3H_7}} \bigcap_{\mathsf{n-C_3H_7}}$$

R³ represents CH₃, Cl or COOCH₃;

n represents 1 or 2;

and benoxinate and physiologically acceptable salts and/or hydrates thereof.

15 5. Composition according to Claim 3, in which the local anaesthetic is selected from benzocaine, butambene, piperocaine, piperocaine hydrochloride, procaine, procaine hydrochloride, chloroprocaine, chloroprocaine hydrochloride, oxybuprocaine, oxybuprocaine hydrochloride, proxymetacaine hydrochloride, proxymetacaine, tetracaine, tetracaine 20 hydrochloride, nirvanin, lidocaine, lidocaine hydrochloride, prilocaine, prilocaine hydrochloride, mepivacaine, mepivacaine hydrochloride, bupivacaine, bupivacaine hydrochloride, ropivacaine, ropivacaine hydrochloride, etidocaine, etidocaine hydrochloride, butanilicaine, butanilicaine hydrochloride, articaine, articaine hydrochloride, cinchocaine, 25 cinchocaine hydrochloride, oxetacaine, oxetacaine hydrochloride, propipocaine, propipocaine hydrochloride, dyclonine, dyclonine hydrochloride, pramocaine, pramocaine hydrochloride, fomocaine, fomocaine

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hydrochloride, quinisocaine, quinisocaine hydrochloride, benoxinate and polidocanol.

- Composition according to Claim 3, in which the local anaesthetic is selected
 from the group consisting of benzocaine, lidocaine, tetracaine, benoxinate,
 polidocanol or their pharmaceutically acceptable salts.
 - 7. Composition according to Claim 3, where the local anaesthetic is lidocaine hydrochloride or lidocaine methanesulphonate.
 - 8. Composition according to any of Claims 1 to 7, where the local anaesthetic is present in a concentration of less than 4% (m/v).
 - 9. Composition according to Claim 8, where the local anaesthetic is present in a concentration of less than 3% (m/v).
 - 10. Composition according to any of Claims 1 to 9, where the cGMP PDE inhibitor is present in an amount of from 0.5 g/kg to 200 g/kg.
- 20 11. Composition according to any of Claims 1 to 10, additionally comprising solvents and one or more excipients from the group consisting of buffers or substances to adjust the pH, viscosity-increasing substances, preservatives, surfactants, solubilizers, tonicity agents, antioxidants, flavourings, substances to prolong the contact time and humectants.
 - 12. Composition according to any of Claims 1 to 11, further comprising one or more excipients from the group consisting of buffers or substances to adjust the pH, viscosity-increasing substances, preservatives, surfactants, solubilizers, tonicity agents, antioxidants, flavourings, carriers, substances to prolong the contact time and humectants.

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- 13. Composition according to any of Claims 1 to 12 for treating diseases.
- 14. Pharmaceutical composition for nasal administration, comprising a composition according to any of Claims 1 to 13.
- 15. Use of a composition according to any of Claims 1 to 14 for producing a medicinal product for treating male erectile dysfunction.
- 16. Use according to Claim 15, where the treatment takes place by nasal administration.
 - 17. Nasal spray applicator comprising a composition according to any of Claims 1 to 14.
- 18. Nasal spray applicator according to Claim 17, which is a single-dose nasal spray applicator.
 - 19. Powder insufflator comprising a composition according to any of Claims 1 to 14.
 - 20. Powder insufflator according to Claim 19, which is a single-dose powder insufflator.